IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

A01K 61/00 In re application of: Salonius, et al.) Int. Cl: Patent No: 7,302,913 B2 U.S. Cl.: 119/215) Atty Docket No. N079 1050.1 Issued: December 4, 2007) Conf. No. 7063)

For: VACCINE AGAINST SALMONID RICKETTSIAL SEPTICAEMIA BASED ON ARTHROBACTER CELLS

REPLY TO PARTIAL DENIAL OF REQUEST FOR CORRECTION

DECISIONS AND CERTIFICATES OF CORRECTION BRANCH Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This letter is submitted as a request for reconsideration of the partial denial of Applicants' Request for Correction filed April 23, 2008 and is responsive to the communication mailed June 3, 2008.

In their previously filed Request for Correction, Applicants enclosed a copy of the International Search Report issued in parent Application No. PCT No. PCT/EP03/07605, issued December 30, 2003, a copy of Form PCT/DO/EO/903 (see acknowledgement of receipt of "Copy of references cited in ISR filed on 01/11/2005"), and a copy of the PTO-1449 and accompanying Information Disclosure Statement filed with the U.S. Patent Office on January 11, 2005.

It should be noted that the Form PCT/DO/EO/903 attached with the previous submission acknowledges that the references in question were received and were in the record of the U.S. national application file. Applicants' PTO-1449 form, copy previously attached, was compliant with 37 CFR §1.98.

Applicants believe that the partial denial of their Request may have been related to the Examiner's having crossed through citations provided on Applicants' PTO-1449 form. However, as stated at the bottom of current PTO Form SB08A, the Examiner is only to take this action if the citation is *not in conformance* and the reference is not considered. (See bottom of SB08A: "Draw line through citation if not in conformance and not considered"). It is clear that, in the present situation, Applicants' citations *were in conformance*: further, copies were acknowledged as received by the Office. Accordingly, the Office was obligated to list the references on the face page of the patent because the Applicants had satisfied all requirements. The Examiner's notations were simply in error.

The Examiner's mistaken notations on a copy of Applicants' PTO-1449 are not a sufficient reason to refuse to list those references on the face page of the patent. As noted, Applicants had complied with all requirements for such listing. In view of the foregoing, Applicants respectfully request that the denial be reconsidered and that the Certificate of Correction issue as originally requested.

Respectfully submitted,

Date: Yely 2, 2008

Carl B. Massey, Jr. Reg. No. 44,224

Attorney for Assignee

Womble Carlyle Sandridge & Rice, PLLC

P.O. Box 7037

Atlanta, Georgia 30357-0037

Telephone: (336) 721-3681 / Facsimile: (336) 726-8074

PCT/EP 03/07606

A. CLASSIFICATION OF BUILDING MATTER IPC 7 A61K39/02					
According to International Patent Classification (IPC) or to both national chastification and IPC					
	SEARCHED	(on sambols)			
Atinhmin documentation searched (classification system followed by classification symbols) IPC 7 A61K					
ě	ation essentiand other than minimum documentation to the extent that				
Electronic c	icis base consulted during the International search (name of data be	see and, where practical search terms used)		
WPI Da	ta, EMBASE, EFO-Internal, BIOSIS	•			
C. DOCUM	ents considered to be nelevant				
Outogory *	Citation of document, with indication, where appropriate, of the re-	levent passages	Relevant to claim No.		
Y	WO 98 33884 A (GRIFFITHS STEVEN (;SALONIUS KIRA (CA); AQUA HEALTH LTD) 6 August 1998 (1998-08-06)	GARETH Europ	7-14,21		
A	the whole document		1-6, 15-20		
Υ	KUZYK M A ET AL: "An efficacious recombinant subunit vaccine agais salmonid rickettsial pathogen Piscirickettsia salmonis" VACCINE, BUTTERNORTH SCIENTIFIC. GUILDFORD, 6B, vol. 19, no. 17-19, 21 March 2001 (2001-03-21), pages 2337-2344, XP004231046 ISSN: 0264-410X	nst the	7-14,21		
٨	page 2342, left-hand column, para -page 2343, left-hand column, para	agraph 2 ragraph 3 -/	1-6, 15-20		
X Fasther documents are listed in the continuation of box C. X Patent family members are fisted in annex.					
*Special ontegoies of cited documents: "A' document defining the general state of the sit which is not considered to be of personaler relevance "E' earlier document but published on or after the international titing data "C' document which say throw doubts on priority claim(s) or which is died to enable the published on or after the international titing data "C' document which say throw doubts on priority claim(s) or which is died to enable the published date of enables or dient special reason (as a specialized or deciment which say throw doubts on priority claimed in died of enables or dient special reason (as a specialized or document of personal the constant or inventive allows abone of the same personal file of document in the priority date claimed. Sing data or plottly date and not in consistent to constant or personal the consistent or document is fellow abone the constant of personal time attention and invention of the same personal site of document in the priority date claimed invention or extern means." "I' here document published after the international filing data or plottly date and not in consistent with the application had closed to invention of personal filing data or plottly date and not in consistent with the application had closed to invention of second not in consistent with the application had closed to invent or cannot be consistent or connect to constant or cannot be consistent or an invention at the priority date of second in the priority date and not in consistent with the application to a consistent with the application had closed to invent or cannot be consistent or an invention of second invention of second to constant or second invention of second invention or consistent to constant or cannot be consistent or second invention or constant or personal the constant or second invention or second invention or constant or second invention or constant or second invention or constant or constant or constant or cannot be consistent or constant or cannot be consistent or constant or canno					
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Foun PCT/IBA/210 (excend short) (July 1000)

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-{Continu	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
degory *	Clintion of document, with indication, where appropriate, of the relevant passages	Flatevent to claim Ho
	NO 96 11707 A (OREGON STATE)	7-14,21
	25 April 1996 (1996-04-25)	
	the whole document	1-6, 15-20
	KUZYK N A ET AL: "ANTIGENIC	1-21
	CHARACTERIZATION OF THE SALMONID PATHOGEN PISCIRICKETYSIASALMONIS"	
ł	INFECTION AND INMUNITY, AMERICAN SOCIETY	
	FOR MICROBIOLOGY. WASHINGTON, US.	1
	vol. 64, no. 12, December 1996 (1996-12), pages 5205-5210, XPO01029511	
	ISSN: 0019-9567	
	page 5208, left-hand column, paragraph 3	
l	-page 5209, left-hand column, last	
1	paragraph	
	KOCH C ET AL: "16S RDNA STUDIES ON	1-21
1	MEMBERS OF ARTHROBACTER AND MICROCOCCUS: AN AIDFOR THEIR FUTURE TAXONOMIC	
.	RESTRUCTURING"	
	FEMS MICROBIOLOGY LETTERS, AMSTERDAM, NL,	
	vol. 123, no. 1/2, 1994, pages 167-171, XP002066096	
	ISSN: 0378-1097	· .
	page 168, right-hand column, paragraph 2	
1	page 170, left-hand column, paragraph 2	
	GUDDING R ET AL: "Recent developments in	1-21
1	fish vaccinology" VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY,	
- 1	ANSTERDAM, NL,	
1	vol. 72, 1999, pages 203-212, XP002968601	
1	ISSN: 0165-2427 page 207 -page 209	
	JONES S R H: "THE EFFECT OF MICROBIAL	404
	EXTRACTS ON THE SEVERITY OF EXPERIMENTAL	1-21
	PISCIRICKETTSIA SALMONIS INFECTION IN COHO	
	SALMON, ONCORHYNCHUS KISUTCH" DEVELOPMENTS IN BIOLOGICAL	
1	STANDARDIZATION, KARGER, BASEL, CH,	
	vol. 90, 1997, page 430 XP009016791	
	ISSN: 0301-5149 the whole document	.
	and the document	
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international application No. PCT/EP 03/07605

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Box I	Observations where certain claims were found unessrchable (Continuation of Item 1 of first sheet)
This into	medional Search Report has not been established in sespect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.; because they relate to subject matter not required to be searched by this Authority, namely:
	Although claims 19 to 21 aredirected to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.	Claims Nos.: because they relets to parts of the international Application that do not comply with the precoribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
•	
. —	
* []	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of New 2 of Stret sheet)
This into	metional Searching Authority found multiple Inventions in this international application, as follows:
	•
	see additional sheet
1.	As all required additional search (see were limely paid by the applicant, this international Search Report covers all search news.
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2. X	As all searchable claims could be searched without effort justifying an additional tee, this Authority did not invite payment of any additional tee.
3. []	As only some of the required additional search fees were timely paid by the applicant, this international Search Report
۳ ـــا	covers only those claims for which fees were paid, specifically claims Nos.:
	
41	No required additional search fees were timely paid by the applicant, Consequently, this International Search Report is seat/ded to the invention first mentioned in the claims; it is covered by claims Nos.:
	·
Flomark :	The additional search face were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/SA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-6, 15 -20

Invention I: Use of live Arthrobacter cells for the preparation of a medicament for treatment or prevention of piscirickettsiosis in fish, vaccine composition or kit comprising live Arthrobacter in combination with a P. salmonis antigen and use thereof for protection against SRS and BKD.

2. Claims: 7, 8, 14 (completely), 9-13 (partially)

Invention II: Vaccine composition comprising live Arthrobacter cell in combination with an immunstimulant, e.g. cell material from killed Arthrobacter cells, or a further, non specified, immunogen

3. Claims: 9-13 (all partially), 21

Invention III: Vaccine composition comprising cell material from killed Arthrobacter cells as immunostimulant, use of killed Arthrobacter cell material as immunostimulant for fish.





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htternation militation No PCT/EP 03/07605

Patent document offed in search report		Publication *		Patent family member(s)	Publication date
WO 9833884	A	06-08-1998	AU	5773998 A	25-08-1998
MT 3000001	••		EP	1012230 A1	28-06-2000
			WO	9833884 A1	06-08-1998
			ÜS	6627203 B1	30-09-2003
WO 9611707	A	25-04-1996	US	5871751 A	16-02-1999
MO SOTTION	n	20 44 1304	ÄÜ	4000195 A	06-05-1996
			CA	2202499 A1	25-04-1996
			68	2308300 A .B	25-06-1997
			NO	971650 A	06-06-1997
			WO	9611707 A1	25-04-1996

Form POT/IGA/819 (retent fromly armon) (July 1860)



JNITED STATES PATENT AND TRADEMARK OFFICE

United States Department of Commerce United States Patent and Trademark Office Address COMMISSIONEE FOR PATENTS RO. Ber 1439 America, Viginia 22313-1450

U.S. APPLICATION NUMBER NO.

FIRST NAMED APPLICANT

ATTY, DOCKET NO.

10/521.104

Kira Salonius

VA/H-32622A

PCT/EP03/07605

INTERNATIONAL APPLICATION NO.

LA. FILING DATE

PRIORITY DATE

07/14/2003

07/15/2002

1095 **NOVARTIS** CORPORATE INTELLECTUAL PROPERTY ONE HEALTH PLAZA 104/3 **EAST HANOVER, NJ 07936-1080**

CONFIRMATION NO. 7063 371 ACCEPTANCE LETTER



Date Mailed: 02/28/2005

NOTICE OF ACCEPTANCE OF APPLICATION UNDER 35 U.S.C 371 AND 37 CFR 1.495

The applicant is hereby advised that the United States Patent and Trademark Office in its capacity as a Designated / Elected Office (37 CFR 1.495), has determined that the above identified international application has met the requirements of 35 U.S.C. 371, and is ACCEPTED for national patentability examination in the United States Patent and Trademark Office.

The United States Application Number assigned to the application is shown above and the relevant dates are:

02/14/2005

02/14/2005

DATE OF RECEIPT OF 35 U.S.C. 371(c)(1), (c)(2) and (c)(4) REQUIREMENTS

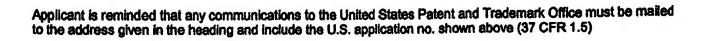
DATE OF COMPLETION OF ALL 35 U.S.C. 371 REQUIREMENTS

A Filing Receipt (PTO-103X) will be issued for the present application in due course. THE DATE APPEARING ON THE FILING RECEIPT AS THE "FILING DATE" IS THE DATE ON WHICH THE LAST OF THE 35 U.S.C. 371 (c)(1), (c)(2) and (c)(4) REQUIREMENTS HAS BEEN RECEIVED IN THE OFFICE. THIS DATE IS SHOWN ABOVE. The filling date of the above identified application is the International filling date of the International application (Article 11(3) and 35 U.S.C. 363). Once the Filing Receipt has been received, send all correspondence to the Group Art Unit designated thereon.

The following items have been received:

- Copy of the International Application filed on 01/11/2005
- Copy of the International Search Report filed on 01/11/2005
- Preliminary Amendments filed on 01/11/2005
- Information Disclosure Statements filed on 01/11/2005
- Oath or Declaration filed on 02/14/2005
- Copy of references cited in ISR filed on 01/11/2005
 - U.S. Basic National Fees filed on 01/11/2005
- Priority Documents filed on 01/11/2005



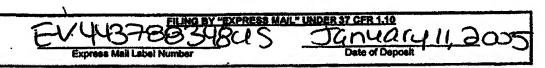


PATRICIA A BOOKER
Telephone: (703) 308-9140 EXT 204

PART 3 - OFFICE COPY

FORM PCT/DO/EO/903 (371 Acceptance Notice)

CASE VA/H-32622A



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PCT NATIONAL STAGE APPLICATION OF

SALONIUS ET AL.

INTERNATIONAL APPLICATION NO: PCT/EP03/07605

FILED: 14 JULY 2003

U.S. APPLICATION NO: Not Yet Assigned

35 USC §371 DATE:

FOR: VACCINE AGAINST SALMONID RICKETTSIAL SEPTICAEMIA BASED ON

ARTHROBACTER CELLS

MS: Amendment Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This paper is being filed within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 of the international application. Therefore, no fees are required. If a fee is deemed to be required, the Commissioner is hereby authorized to charge such fee to Deposit Account No. 19-0134.

In accordance with 37 C.F.R. §1.56, applicants wish to call the Examiner's attention to the references cited on the attached form(s) PTO-1449.

The listed references were cited in the international stage search report. Since these references are of record in the instant PCT application PCT/EP03/07605, copies are not enclosed herewith.

The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 form(s).

Respectfully submitted,

Novartis Corporate Intellectual Property One Health Plaza, Building 104 East Hanover, NJ 07936-1080 (862) 778-7922

Date: January 11, 2005

Attorney for Applicants

Reg. No. 37,881

FORM PTO-1449 (REV. 7-85) INFORMATION DISCLOSURE CITATION

U.S. DEPARATION OF COMMERCE PATENT AND TRADEMARK OFFICE

(Use several sheets if necessary)

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		FOREIG	ON PATENT DOCUMENTS				
	DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRAN YES	SLATION NO
AM	WO 98 33884	8/6/98	WIPO				
AN	WO 96 11707	4/25/96	WIPO			口	
AO							
AP							
AQ							
·	OTHER DOO	UMENTS	(including Author, Title, Date, P	ertinent pages, E	Etc.)		
			ombinant Subunit Vaccine			ttsial	
AR	Pathogen Prscirickett	sia Salmoni	is", Vaccine, Vol. 19, No. 17	-19, pp. 2337-	2342 (2001)		
AS	Kuzyk et al., "Antigen and Immunity, Vol. 64	ic Characte I, No. 12, p	rization of the Salmonid Pat p. 5202-5210, (1996)	hogen Piscirio	kettslasalmor	nis", In	fection
AT	Koch, et al., "16S RD Taxonomic Restructu	NA Studies ring", FEMS	on Members of Arthrobacte 3 Microbiology Letters, Vol.	r and Microco 123, No. ½, p	ccus: An ald 1 o 167-171, (19	or the 194)	r Future

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE FORM PTO-1449 (REV. 7-85) INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

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VAH-32622A
APPLICATION NO.
Not Yet Assigned
APPLICANT
SALONIUS ET AL.
FILING DATE

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10/521104

Group

EXAMMER MITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)					
	DA	Gudding et al., "Recent Developments in Fish Vaccinology", Veterinary Immunology and Immunopathology, Vol. 72, pp 203-212, (1999)				
	DB	Jones, "The Effect of Microbial Extracts on the Severity of Experimental Piscirickettsia Salmonis Infection in COHO Salmon, Oncorhynchus Kisutch", Developments in Biological Standardization, Vol. 90, page 430, (1997)				
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^{*}EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a fine through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.